AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of evolving an Extensible Markup Language (XML) Schema, the method comprising:

receiving, at a schema evolver that is executing in a computer system, a document that indicates one or more changes to be made to an existing first XML schema;

based on said first XML schema and said document, said schema evolver generating an evolved second XML schema; and

based on said second XML schema, generating one or more first Structured Query Language (SQL) statements.

2. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object types to be created.

3. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object tables to be created.

4. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object types to be deleted.

5. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object tables to be deleted.

6. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object types to be altered.

7. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object tables to be altered.

8. (Original) The method of Claim 1, wherein said first SQL statements, when executed, cause one or more database object instances to be altered.

9. (Currently Amended) The method of Claim 1, wherein said one or more changes are expressed as one or more instances of one or more XML types specified by a third XML schema that is separate from said first XML schema and said second XML schema.

10. (Original) The method of Claim 1, further comprising:
generating one or more second SQL statements that, when executed, cause effects of said one or more first SQL statements to be reversed.

11. (Original) The method of Claim 10, further comprising:
determining, while executing said one or more first SQL statements, whether an error has occurred; and
in response to determining that an error has occurred, executing one or more of said one or more second SQL statements that, when executed, cause effects of said one or more first SQL statements that have been executed to be reversed.

12. (Currently Amended) A method of generating Structured Query Language (SQL) statements to alter database types in a database system that has definition data that defines a set of one or more database object types, the method comprising:
receiving a first Extensible Markup Language (XML) schema; and
based on said first XML schema, generating one or more SQL statements that, when executed, cause a database server to alter said set of one or more database object types;
wherein said one or more database object types were generated based on a second XML schema that differs from said first XML schema, wherein said one or more database object types are types of objects within the database system.

13. (Canceled)

14. (Currently Amended) The method of Claim 12, wherein said first XML schema was generated based on said second XML schema, wherein said second XML schema exists prior to said first XML schema, wherein said first XML schema is evolved from said second XML schema, and wherein said first XML schema and said second XML schema are different XML schemas.

15. (Original) The method of Claim 12, wherein said one or more SQL statements, when executed, cause said database server to create one or more of said one or more database object types.

16. (Original) The method of Claim 12, wherein said one or more SQL statements, when executed, cause said database server to delete one or more of said one or more database object types.

17. (Canceled)

18. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 1.

19. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 2.

20. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 3.

21. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 4.

22. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 5.

23. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 6.

24. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 7.

25. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 8.

26. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 9.

27. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more

processors, causes the one or more processors to perform the method recited in Claim 10.

28. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 11.

29. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 12.

30. (Canceled)

31. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 14.

32. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 15.

33. (Currently Amended) A volatile or non-volatile computer-readable storage medium carrying one or more sequences of instructions which, when executed by one or more processors, causes the one or more processors to perform the method recited in Claim 16.

34. (Canceled)